University News

OCTOBER 16, 1986 Re. 1.00

Karagam Folk Dance by Bharathidasan University that won the First Prize at the South Zone Inter-University Youth Festival held at Andhra University, Waltair on 2-5 October, 1986.

CLASSIFIED ADVERTISEMENTS

THE UNIVERSITY OF JODHPUR

(Establishment Section)

No. JDR: U : ESTT : 13389 **Dated : October 3, 1986**

ADVERTISEMENT No. 80/86

APPOINTMENTS

Applications are invited on the prescribed form for the following temporary posts under **A.V.R.C. Scheme** so as to reach the office of the undersigned latest by **5th November, 1986**. The application forms can be obtained from this office on payment of Rs. 10/- for teaching posts and Rs. 10/- for non-teaching posts only through I.P.O. payable to the Registrar, University of Jodhpur at Jodhpur along with a self-addressed envelope of 24 x 11 cms. size bearing postal stamps of Rs. 4.35. No fee shall be charged from SC/ST candidates :

TEACHING POSTS		Pay scale
1. Co-ordinator	One	Rs. 1200-50-1300-60-1900 (UGC)
2. Producer	One	Rs. 700-40-1100-50-1600 (UGC)
3. Assistant Engineer	One	Rs. 700-40-1100-50-1600 (UGC)
NON-TEACHING POSTS		
1. Cameraman	One	Rs. 820-20-900-25-1000-30-1300-40-1500-50-1550 (State)
2. Production Assistant	One	Rs. 740-20-900-25-1000-30-1300-40-1420.
3. Technical Assistant	One	Rs. 740-20-900-25-1000-30-1300-40-1420.
4. Technicians	Two	Rs. 490-10-550-15-640-20-840.

Note:

1. Details of qualifications will be made available to candidates along with application forms.
2. Dearness allowance, House Rent Allowance, City Allowance and other allowances will be payable as per University Rules for State as well as UGC pay scales.
3. The University reserves the right to increase or decrease the number of posts. The University also reserves the right not to fill the posts, if deemed necessary.
4. The University may call for interview only limited number of candidates. No TA and DA will be paid to candidates called for interview.
5. 16% and 12% posts are reserved for SC and ST candidates respectively.

REGISTRAR

SHREEMATI NATHIBAI DAMODAR THACKERSEY WOMEN'S UNIVERSITY

Bombay - 400 020

Applications are invited in the prescribed forms (8 copies) available from the S.N.D.T. Women's University Office, 1, Nathibai Thackersey Road, Bombay-400 020 on payment of Rs. 5/- (by M.O./Indian Postal Order/in Cash), for the Post of Director, Correspondence Courses Department, Bombay-49, so as to reach the undersigned on or before **Fifteen days** from the date of advertisement.

Details of Qualifications, Experience and Salary Scale.

Director : (Non-vocational Academic Post).

Ph.D. or equivalent published research work. Ten Year's experience of teaching and/or research and atleast Five Years' of administrative experience at an Educational Institution of Higher Learning, and/or experience of Supervising work similar to that of Correspondence Department.

Salary Scale : 1500-50-1700-75-2000-125/2-2250+admissible allowances under University rule.

ASSOCIATION OF INDIAN UNIVERSITIES
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New Delhi-110002

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IN THIS ISSUE

Human Factor in Evaluation
Teaching Learning Processes 4
Microprocessors for Library Applications 5
News from Universities
  Marine Research Centre 7
  New Rural Universities 7
  Rs. 85-Cr. Assistance for Science Courses 7
  Correspondence Institute for Calcutta 8
Agriculture
  Central Agricultural University for NE States 8
  Agricultural University at Dharwad 8
  Bankers' Training Course 8
News from Abroad
  Monitoring University Efficiency 9
  Canadian Writers to be Paid for Library Use of Works 9
AIU News
  South Zone Inter-University Youth Festival 12
Research in Progress 16
Theses of the Month 18
Classified Advertisements 20

Opinions expressed in the articles are those of the contributors and do not necessarily reflect the policies of the Association.

Editor :
SUTINDER SINGH

Human Factor in Evaluation

S.R. Jayaswal*

Due to great dissatisfaction with the present system of examination, efforts have been made to evolve a new system of assessment and evaluation. The present system of examination is full of subjective elements. This by itself is not so bad provided an examiner is a person of integrity and has a correct view of the subject he is examining. The evil connected with the examination system stems out of the excessive emphasis and importance attached to marks and divisions awarded to candidates and the mark-sheet presented by a candidate is supposed to reflect his merit, and suitability for a job. We know how deceptive mark-sheets have become. Now we have fake mark-sheets, forged degrees and diplomas, because they are necessary to get a job. If degrees are delinked from job, this evil may be checked. But that is another matter.

Examination, Assessment and Evaluation

We find the three terms: examination, assessment and evaluation being used sometimes interchangeably. In the 1986 Education Policy document, these three terms have been used in the following context:

(a) "*Assessment* of performance is an integral part of any process of learning and teaching". (8.23)

(b) "The objective will be to re-cast *the examination system* so as to ensure *a method of assessment* that is a valid and reliable measure of student development and a powerful instrument for improving teaching and learning". (8.24)

(c) "Continuous and comprehensive *evaluation* that incorporates both scholastic and non-scholastic aspect of education, spread over the total span of instructional time". (8.24)

(d) "Effective use of *evaluation process* by teachers, students and parents". (8.24)

(e) "*Evaluation* at the institutional level will be streamlined and the predominance of external *examinations* reduced." (8.25)

We have in our system examiners, but not assessors and evaluators. We have sometimes such examiners for theory papers who themselves cannot answer any question properly. Should we have an examination of a person before he is appointed as examiner? Do we need to be retold how examiners are appointed and the corruption associated with it? At every stage of the present examination system foul play is to be seen. Hence to avoid this foul play and rampant corruption we need to change "the system of examination", the 'process of assessment' and the 'evaluation process'.

Change the Consciousness

No amount of outer change in the method of examination, or the process of assessment will bring about the desired change unless we change the consciousness of teachers, parents and students. Here the word 'consciousness' is being used for the mentality in which we live and work. We

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**Former Professor and Dean, Faculty of Education, Lucknow University, Lucknow.*

are, with a few exceptions, extremely selfish, egoistic, and devoid of those social, moral and spiritual values which we are supposed to transmit to new generation. Hence the first requirement is "Physician heal thyself". We have become extremely money-minded due to the impact of materialistic way of life. It is high time that teachers, parents and students look within and see for themselves what they were in the past and what they have become in the present.

The fault lies not with the tools, but with the man using the tools of examination, assessment and evaluation. Once we have made the human factor faultless, more than half the battle is won. So change the consciousness and not the system first.

Some Suggestions

Since evaluation is an integral part of teaching-learning process, it should be continuous and comprehensive. In this context, we should always keep in view the objectives of evaluation. Evaluation should be done with a view to finding out as to how far the objectives of education are being realised through the process of learning and teaching. Are the students learning and the teachers teaching in terms of the objectives of education? Hence the objectives of education must be in the forefront. We want to make our nation strong and united. National unity and emotional integration along with basic values of life, are part and parcel of the objectives of education.

As we know the present examination system does not assess the performance in a realistic setting nor does it evaluate the character development. The examiner and the examinee both are unknown to each other, for the present system believes in secrecy and does not trust the teacher-examiner, as his integrity is in doubt. There have been cases of favouritism and biases and prejudices. The element of politics is also there. Some teacher-examiners threaten their students and make them insecure as well as rebellious. The traditional teacher-taught relationship based on mutual love and respect is missing. Hence the secrecy which breeds corruption.

The system of continuous and comprehensive evaluation can work only when there is a happy teacher-taught relationship. It is not possible for a teacher to do a continuous and comprehensive evaluation without knowing his pupil and his family background. If the teacher and his pupil know each other, understand each other and have love and respect for each other, the excessive element of chance is removed. Of course the subjective element will be there. But this will be governed by a teacher's integrity, impartiality, sincerity and concern for his pupil's integral progress. This can be done by a true teacher and not by cheaters masquerading as teachers.

I have used harsh language at places in this paper. But the truth is bitter and it must be stated when we are faced with a crisis in our conscience and a crisis of character. Let a spade be called a spade. Let those teachers who have brought shame and degraded this noble profession go to some other field where they can mint money. Education is not for them. In our country education has been regarded as a noble profession and the teacher has been given a place equal to God. The Guru and the Govinda are before the pupil. He bows before the guru for he gave him the ability to recognise Govinda—God.

Let there be some idealism, a spirit of service and sacrifice on the part of the teacher—examiner. Only then the continuous and comprehensive evaluation will be successful. The human factor in the system of evaluation we desire must be of good quality and good character. It is so obvious and yet it is so obscure to those who have neither love for their country nor for the humanity at large.

Having said the first thing first, the rest follows easily. In a system of continuous and comprehensive

Inter-Varsity Youth Festivals 1986

Dates and Venues

Zone	Venue	Dates
EAST		
Gauhati Uuniversity	Guwahati	October 18-21, 1986
WEST		
University of Rajasthan	Jaipur	October 27-30, 1986
NORTH		
Agra University	Agra	November 3-6, 1986

evaluation both scholastic and non-scholastic aspect of education are to be kept in view. We know about the scholastic aspect, but what about the non-scholastic aspect of education? Of course, the non-scholastic aspect should include physical culture, games and sports, yoga-asanas, co-curricular activities, social and national service etc. from the collective viewpoint. But from the individual point of view, the comprehensive evaluation will be concerned with character development, truthfulness, sense of responsibility, sincerity of purpose, desirable values and attitudes. These can be evaluated only by observation and contact.

A system of continuous and comprehensive evaluation is successful where the teacher-pupil ratio is about 1 : 10. In a crowded class-room where it is not possible to have a healthy teacher-pupil relationship, comprehensive evaluation is not possible.

The continuous and comprehensive evaluation will be a part of a teacher's duty. Hence there will be no separate payment for it. In this system there will be no secrecy. The grades and not the marks will be awarded by a teacher, and at the end of every semester, the teacher will announce the grades given by him. Thus there will be no external person to evaluate. The teacher must evaluate the learning by his pupils continuously by observing their scholastic and non-scholastic performance. Hence his observations have to be free from favouritism and partiality. Is it possible to have such teachers under the present conditions? If the answer is in the negative, then abolish this corrupt system of examination. Only certify that so and so studied such and such subjects for a certain degree or diploma. Let the degrees be delinked from such jobs which do not require professional competence. Let every recruiting agency conduct its own examination. which is being done at present by banks and public service commissions.

It is high time that we change our attitudes and work with a new consciousness so that once more India regains its lost glory and becomes the spiritual guide and friend of nations who look towards it for guidance, peace and friendship. "India has seen always in man, the individual, a soul. a portion of the Divinity enwrapped in mind and body, a conscious manifestation in Nature of the universal self and spirit", says Sri Aurobindo. It is high time that this truth is practised by us. When this truth will be put into practice by teachers, parents and students, real, continuous and comprehensive evaluation will be possible. Otherwise it will remain a dream we cherish □

UNIVERSITY OF HYDERABAD

POST-GRADUATE DIPLOMA COURSE IN COMPUTER APPLICATIONS (D.C.A.) FOR UNEMPLOYED S.C. CANDIDATES

ADMISSION NOTICE No. 2 86-87

The School of Mathematics and Computer Information Sciences of the University is starting a Job-oriented Training Programme in Computer Sciences to be called as "Diploma Course in Computer Applications" for the unemployed Scheduled Caste Graduates with the financial assistance from the Government of Andhra Pradesh. The course is likely to commence in January, 1987. The duration of the course is 2 semesters. Candidates belonging to Scheduled Castes and having a Bachelor's degree in Science, Engineering, Technology, Economics, Commerce or Business Administration are eligible to apply for the course. In case of admission, the candidates will be provided a stipend of Rs. 400 - per month for a period of 12 months towards boarding and lodging and other contingent expenses. Hostel accommodation may not be available.

Applications on plain paper may be sent giving the following particulars·

1. Full name and address: (2) Date of Birth; (3) Father's Name;
4. Educational qualifications from matriculation onwards (year, name of the University Board. Subjects offered and passed, marks obtained, division etc.);
5. Whether undergone any training in computer Science, (If yes, give details).

Applications along with copies of the certificates, mark sheets and Caste Certificate should reach the Deputy Registrar (Academic), University of Hyderabad, Central University P.O., Hyderabad -- 500 134 latest by **30th Oct., 1986.** Incomplete application or applications received after the last date will not be entertained.

Hyderabad
Dated : the 15th Sept. '86.

K.C. Reddy
REGISTRAR

Teaching Learning Processes : The Desired Approach

Anand P. Srivastava*

In 1823, Raja Ram Mohan Roy pleaded with the British to give India a modern education by promoting a more liberal and enlightened system of instruction, embracing mathematics, natural philosophy, chemistry and anatomy with other useful sciences. This demand was ultimately conceded and the modern system of education found its roots in India. Schools and colleges came into existence in the nineteenth century. About hundred and fifty years have passed by now in India's experience with modern education which was different from mere oriental education through madarasas and Sanskrit pathshalas. Education in India had a multi-dimensional growth during the fifteen decades but its quality could not improve.

Since 1857, when three universities were established in India, teaching style in college appears not to have changed. It remains by and large the same, i.e. focussing solely on preparing for examinations. College teaching is a vital and evolving profession. It has to take care of the future of the nation and the humanity as a whole. Teachers have to visualise the future and prepare the youth for the future. This is what the college *education basically means. Each teacher has to* check up his/her goals and methods, asking if they will meet the future needs of our society. Unfortunately, our teachers and teachings appear to be buried largely in the past and teaching is based on a single teacher's resources. Innovations based on research for better teaching-learning processes have been ignored by us so far. The way we conduct our college classes makes our students highly dependent on the teacher for information, while the modern trend is that teachers can also learn from their students (who should participate in learning processes) and colleagues (who can pool up group resources of teaching profession). Another major trend in modern college education is that students should be made to think inductively and deductively. Post-1950 years have provided sound learning theories, which remain largely unnoticed in our college life. Knowledge and practice of these learning theories are essential for us—the teachers.

Our colleges have ignored the modern slogan that education is a life-long process and should not stop with the acquiring of a college degree. It has become so because we have not made our students learn independently. We, as teachers, have not cared to cultivate problem-solving and decision-making skills in college students. We have not posed the problem to ourselves as to *"what is the future of the medieval ways of teaching currently in vogue in colleges and higher education?"* We have retained only the 'past bound' teaching practices and, therefore, have deprived our students of playing the roles of 'change agent' in society. We, the teachers have not consciously asked the fundamental question as to how one teacher has grown ever since he or she started teaching? The teacher has not identified one's outstanding teaching skill(s) nor has she or he clearly determined what one enjoys most about college teaching. Certainly, a teacher has not shared these phenomena with others in the teaching community. Teachers have not evaluated as to how college students of today are different from the days when present day teachers themselves were students in colleges. An awared approach would demand that the teachers should know, be sure about, and share with other teachers:

(i) Who is/was the best teacher of a college teacher, and why was the person rated the best?
(ii) What was the best class one taught and why that class was rated the best?
(iii) How will one like to teach after, say five years, and what are his/her efforts in that direction?
(iv) What are one's articulations about teaching ideas? How has one identified himself/herself as a teacher (in addition to being an expert of a discipline)?
(v) Which theory of learning is one's favourite and why?
(vi) What one teacher does to get students involved in classroom, practicals and tutorials?
(vii) What are the strong points of one's teaching style (which other teachers may like to adopt)?

Unless we think on these lines and mutually share our experiences, modernisation of college teaching is not likely to take place. It is a crude way to explain a phenomenon—by saying that a particular teacher is a good teacher and another particular teacher is a bad teacher. This style of evaluating and understanding once again appears to be a medieval type of approach. But the fact is that a student learns more and better from one teacher than from the other teacher. Therefore, as teachers, we may like to know constantly during our teaching years as to what conditions help a student learn better, so that those conditions could be adopted by many, if not by all. We are far behind in teaching-learning processes because we, as a group of teachers, have not given thought on this area. Our teaching-learning processes depend solely on a single teacher's own resources. We have neither explored nor exploited the enriched quantum of the resources of a group of teachers through *"Give and Take" seminars, etc.* This is the reason that our teaching-learning processes are less effective and below standard. If teachers meet and discuss these issues, based on recent books on teaching-learning processes, much improvement will take place in our college and higher education. ☐

**Chief Librarian, University of Delhi.*

Microprocessors for Library Applications

The Directorate of Documentation and Library Services of the Tamil University, Thanjavur, organised, under the auspices of the University Grants Commission, a National Seminar on "Microprocessors for Library Applications and Information Services". Mr. R. Alalasundaram, Registrar, Tamil University, inaugurated the seminar while the key-note address was delivered by Mr. S. Arunachalam of the Publication and Information Directorate, Government of India. The four sessions of the seminar were presided over by Mr. T.S. Rajagopalan, President, Indian Library Association, Mr. S.C. Biswas, Prof. P. Gangadhara Rao and Prof. K.C. Chellamuthu respectively.

In all 15 papers were presented and discussed at the seminar. Following recommendations emerged at the seminar:

(1) The seminar recognising the need to change, improve and adapt to new conditions brought about by advances in information technology, recommends that library and information system in our country should take up to computerisation without any further loss of time and modernise their operations and services.

(2) In view of increasing availability of inexpensive, locally available, good quality microprocessor based systems, and the many advantages and facilities which these systems offer for bibliographical information handling, the seminar recommends provision and use of microcomputers in our library and information systems.

(3) The seminar reiterates the following recommendations of the NISSAT study team (April 1986) in regard to system configuration of microcomputers for library and information system of different sizes and advocates to the management's provision of microcomputers as follows:

(a) For a small library/information centre with a single user system 16 bit microprocessor, with 256 kb memory, two units of 5 1/4" Floppy drive (360 kb), display unit of alpha—numeric monochrome with screen size 12", a low speed 132 column LQ Printer, one electronic typewriter with RS 232 interface and back up facility on the floppy disc.

(b) For a medium library/information centre, with a multiuser system (four simultaneous users) a 16 bit microprocessor with 1 Mb memory, two units of 5 1/4" floppy drives (360 kb) two winchester drives with 20MB capacity each, four VDUs, one letter quality printer (132 cols), one high speed printer (300 lpm) and one xerographic printer, one microfilm reader/printer, one (4800 bps) modem for online networking purpose and a back-up facility on the cartridge disk or streaming type.

(c) For a large library/information centre, with a multiuser, multi tasking operation system (8 users), a 32 bit microprocessor with 2 mb memory, two units of 5 1/4" floppy drives (360 kb) and multiple disk drives with a total 600 mb capacity, two magnetic tape units (9 track, 800/1600 bpi), eight VDUs, two graphic terminals, two letter quality printers (132 cols), two high speed line printer, (600 lpm), and

Shri T.S. Rajagopalan, President, Indian Library Association, addressing the Seminar. Others seen in the picture are (from left to right): Shri S.C. Biswas, Shri T. Padmanabhan, Prof. K.C. Chellamuthu and Prof. P. Gangadhara Rao.

one xerographic laser printer, one microfilm reader/printer, one 4800 bps modem for online networking and back-up facility on the magtape.

(4) The seminar having noted a growing interest among library and information systems to acquire microprocessor based systems, recommends to national bodies such as NISSAT and UGC and professional associations such as ILA and IASLIC to prepare suitable guidelines on the selection of suitable hardware system, including specifications of the processor and peripherals.

(5) The seminar, having taken note of the existing software packages such as CDS/ISIS (Micro-version) and IV+V and also software programmes developed for individual application by our library and information systems stresses upon the need to develop user friendly, portable software packages suitable for microprocessor systems, for application in bibliographic information handling. It requests bodies like NISSAT and UGC to take immediate steps to develop such software packages in order to help our library and information systems to take up to computerisation without loss of time.

(6) The seminar recommends setting up of a library and information application software bank, so that any interested library or information centre may draw from it, to be able to meet its software requirement, to the extent possible.

(7) The seminar recommends that library and information systems in our country as a whole and as groups such as academic libraries, special libraries, research and State public libraries, may, as far as possible, go in favour of common hardware and software systems so that networking and compatibility in information exchange are facilitated.

(8) The seminar, recognising the need for common bibliographical formats for inputting information for computer processing, recommends that the Documentation Committee (EC2) of Indian Standards Institution formulates quickly National Standards of bibliographical formats, based on UNIMARC, UNISIST reference manual and Common Communication Format.

(9) The seminar, realising the need for development of manpower for meeting present and future requirements for computerisation programme, recommends :

(a) Regular training programmes such as :

—to set up advanced training courses of one year duration with emphasis on computer science, for already qualified library and information personnel by making use of facilities already available in institutions such as IITs, IISC, INSDOC, DRTC and library schools of Indian Universities.

—the schools of library and information science in the universities to redesign appropriately their courses to place greater emphasis on computerised bibliographic information handling and for this purpose to be provided with adequate infrastructural facility.

(b) Short-term training programmes such as bodies like NISSAT, NIC, UGC, RRRLF, Government of India, and State Departments of Education to support financially and otherwise adhoc training programmes in computerisation for the benefit of existing library and information science personnel.

(c) Formulating a model syllabus of course content for short-term training courses, regular training courses of the schools of library science in Indian universities and advanced level training courses for imparting education and training in computerisation aspects, by involving appropriate bodies and experts and teachers in computer science and library and information science.

(d) Placing emphasis in the various training programmes in imparting practical knowledge and skills and hands-on-experience of working with computer.

(e) A Library Automation Cell may be constituted with small group of active participants who will be responsible in liaison work and perhaps initiate in producing a newsletter for the benefit of this group of Library and Information Scientists who are moving into Libary Automation Programme. ☐

CALENDAR OF EVENTS

Insertions for our column, Calendar of Events, are welcome. It will help early reporting of the event as also avoid unnecessary correspondence if the matter for insertion is submitted in our usual format under the heads: proposed dates of the event, title, objective, name of the organising department and name of the Organising Secretary/Officer to be contacted.

Marine Research Centre

A Marine Aquarium-cum-Research Centre is proposed to be set up at Digha in West Bengal to conduct research on selected marine forms. The first of its kind on the eastern coast and the second in India, the centre would be built on an area of 6.5 acres allotted by the West Bengal Government. The Central Government has sanctioned Rs. 1.97 crore for construction of the building.

The research centre, which is expected to become operative in 1990-91, will conduct research on biological rhythms, neurophysiology, and palymorphism and understand the mechanism of bioluminescence. It will also provide facilities for observation of the locomotion, sensory perception, feeding habits and breeding biology of the marine ecosystem, in which the eastern coast abounds.

The centre will thus provide unique research facilities to researchers from the universities and the Zoological Survey of India, scientists working in the marine biological station (Madras), Estuarine Research Station (Berhampore-Orissa), Andaman and Nicobar regional station, Port Blair and the field station in mangrove ecosystem, Port Canning (24 Parghanas, West Bengal).

The research at this complex will assess marine pollution and help prevent the recurring damage done to the under-water structure.

The complex will help study of the Pacific sea turtle, a protected species under the Wild Life Act, the life history of king crab (limulus), crab, oysters, mussuls and shelfish.

A Tricycle for the Armless

Eight final year students of the Mechanical Engineering Department (I and P Branch) of Manipal Institute of Technology have designed a simple back-controlled tricycle for the benefit of armless which is both comfortable and economical.

An ordinary tricycle was made without the handle which is used for steering. Instead, at the top of the fork a small plate was welded in which two small holes were drilled and cables which are used for brakes were inserted through them. A bigger lever was attached to a shaft coming down from the back rest to which the other end of the cables were fixed. The whole back rest swivels in a bush welded to the frame. So, when the rider wants to turn left, he presses his left shoulder against the back rest and, if he wants to turn right, he exerts pressure on the right side of the back rest with his shoulder. Pedal brakes are incorporated to stop the vehicle. A front brake has been provided for use in emergencies.

New Rural Universities

The Central Government proposes to set up five new rural universities in the country during the Seventh Plan period and consolidate and strengthen the existing five rural universities at an estimated cost of Rs. 20 crores. This was indicated by Dr. M. Aram, Member, University Grants Commission.

Dr. Aram said that these Rural Universities would be developed on the lines of Gandhiji's revolutionary ideas on education to take up the micro-planning at grassroot levels for the transformation of rural areas. The new universities are expected to be established in Gujarat, Maharashtra, Rajasthan, Punjab, Tamil Nadu as also one at Sevagram in Wardha where Gandhiji had his Ashram.

Rs. 85-Crore Assistance for Science Courses

The Central Government is reported to have decided to give financial assistance to the IITs and some regional engineering colleges in the States for strengthening advanced courses in Sciences. A Rs. 85-crore scheme is understood to have been approved and the new sciences proposed to be covered are computer science, electronics, bio-science, material science and management science.

INSA Awards

Prof. B.M. Johri, Department of Botany, University of Delhi, Dr. C.V. Seshadri, Director, Sri A.M.M. Murugappa Chettiar Research Centre, Madras and Prof. P.T. Narasimhan, Department of Chemistry, IIT, Kanpur have been selected by the Indian National Science Academy (INSA) for three endowment lecture awards for the year 1986.

Prof. Johri is the recipient of the Prof. T.S. Sadasivan lecture award while Dr. Seshadri has been selected for the Prof. B.D. Tilak lecture award for his outstanding contribution to rural economy and life through innovative and effective application of science and technology. The Prof. R.K. Asundi memorial lecture award has gone to Prof. Narasimhan for his contribution in spectroscopy.

In addition, the INSA has also selected Dr. R.S. Upadhyay of the Botany Department of Banaras Hindu University for the Prof. L.S.S. Kumar memorial award for his contributions in plant sciences.

Correspondence Institute for Calcutta

The West Bengal Government, it is reported, proposes to set up an Institute of Correspondence Courses in Calcutta. To be named after late Mr. Sambhu Ghosh, former State Education Minister, the Institute would be affiliated to the Calcutta University and offer courses at the undergraduate and postgraduate levels. Admission to the courses would be open to students from all over the country.

M.Phil. in Environmental Science

The Gauhati University is reported to have recently introduced the M. Phil. Course in Environmental Science (Physical).

News from Agril. Varsities

Central Agricultural University for NE States

A Central Agricultural University for the North Eastern States including Sikkim is proposed to be set up in Shillong. According to Dr. B.C. Barthakur, Vice-Chancellor, Assam Agricultural University and Member of the Governing Body of the Indian Council of Agricultural Research (ICAR), the Central Government has provided a sum of Rs. one crore at the disposal of the ICAR as a token grant for the year 1986-87 for this purpose.

To be located at Barapani, 17 km north of Shillong, this will be the first agricultural university in central sector with the ICAR Research complex as its nucleus and would concentrate on teaching, research and extension. The new university together with the Assam Agricultural University will provide the necessary support for the advancement of Agriculture, Animal Husbandry and Veterinary Science, Forestry and Fisheries and such other allied areas in the entire North Eastern Region of India including the State of Sikkim. It will also help develop competency in agricultural and scientific manpower in the youth of the region.

The existing agricultural colleges in Nagaland and Manipur will come under the jurisdiction of this new central agricultural university. It will also set up a Veterinary college in Mizoram, a Forestry College in Arunachal Pradesh, an Engineering College in Tripura and a Home Science College in Sikkim.

Dr. K. Kanungo, former Vice-Chancellor of Orissa University of Agriculture and Technology, is being appointed as Officer on Special Duty to take up the initial work of this new university.

Agricultural University at Dharwad

The second agricultural University of Karnataka has started functioning at Dharwad with effect from 1st October. The jurisdiction of the university extends over Belgaum, Dharwad, Bijapur, Bidar, Gulbarga, Raichur and Bellary districts. In addition 25 agricultural research stations, three extension education centres and two agricultural science centres would come under the purview of this new university.

Bankers' Training Course

Dr. Sukh Dev Singh, Vice-Chancellor, Punjab Agricultural University presided over the concluding function of a one-week advanced training programme in agricultural lending organised by the Department of Extension Education of the University. In his address he observed that the margin

CORRESPONDENCE COURSE IN EVALUATION METHODOLOGY AND EXAMINATIONS

Applications are invited from College/University teachers for admission to Correspondence Course in Evaluation Methodology and Examinations at Basic Level, Intermediate Level and Advanced Level/Special Professional Course. The duration of each of the three courses is six months. A personal 'Contact Programme' for three days is planned for each of the three courses. Universities/Institutions sponsoring candidates can meet the registration/course fees from out of unassigned grants by UGC.

Request for prospectus and application form accompanied by a crossed Indian Postal Order for Rs. 10 drawn in favour of the Secretary, Association of Indian Universities and a self addressed stamped envelope (Re. 1) should reach the undersigned. Last date for receipt of applications is extended to **15th November, 1986** for sponsored and non-sponsored candidates.

Project Director (Examinations)
ASSOCIATION OF INDIAN UNIVERSITIES
AIU House, 16 Kotla Marg
New Delhi-110002

of profitability in Punjab agriculture was decreasing on account of the rising cost of production and said that there was a great need for the diversification of agriculture. He emphasised that the commercial banks should take a lead by providing financial assistance to small and marginal farmers to start new ventures like dairying, poultry farming, bee-keeping and mushroom-growing.

Dr. K.S. Nandpuri, Director of Extension Education, who had earlier inaugurated the training course, highlighted the process of development of agriculture in the state. He advised the Bank Officers to be liberal in extending credit support for self-employment scheme to solve the unemployment problem of youth.

The training programme was attended by 21 Agricultural Extension Officers of the Canara Bank.

News from Abroad

Monitoring University Efficiency

As a follow up to the Jarrat Committee Report that had suggested that a range of performance indicators should be developed for making comparisons within and between universities, the Committee of Vice-Chancellors and Principals of U.K. (CVCP) constituted a working group under the chairmanship of Prof. Sir Mark Richmond, Vice-Chancellor of Manchester University to identify such indicators. The working group has recommended that the universities should undertake formal appraisal of teaching as a matter of good practice. It feels that the performance indicators will enable universities to manage themselves better and will help the University Grants Committee (UGC) and the Department of Education and Science (DES) to monitor university performance and the use of public funds.

The working group lists a range of indicators which could be introduced during 1986-87 and suggests others that could be introduced later when the information could be collected more easily. It has, however, left off the list, the classification of honours degrees awarded as an indicator of teaching quality. This is because degree class reflects students' own abilities as well as quality of teaching. Instead the group recommends a uniform system of individual teaching appraisal in all universities, with importance being placed upon student questionnaires.

The indicators that could be introduced right now include cost per full time equivalent, student. research income, submission rates for research degrees, number of research and sponsored students, occupation of graduates after one year, ratio of students to full-time academic staff, equipment costs per full time academic staff, library (or career, medical, sports, administrative) cost per student and ratio of support staff to academics.

Indicators that are proposed to be introduced later include undergraduate wastage rates, analysis of publications, citations, peer reviews, editorship of journals, membership of research councils, and costs per graduate.

The working group has recommended a technical committee to be established to define and evolve the intial range of indicators.

Canadian Writers to be paid for Library Use of Works

Canadian authors will now be paid for the use of their books in libraries.

A $3 million-per-year payment for public use (PPU) program has been established within the Canada Council to cempensate Canadian writers for the use of their works in Canadian libaries. The announcement came from federal Communications Minister, Marcel Masse.

"Until now, our authors have received a specified royalty from publishers for their works, whether purchased by an individual or a library, even though the book held by a library is available for use by a large number of people. This program will assist in addressing that imbalance, and the important additional income for Canadian writers will allow them to devote more time to their craft."

The PPU program will be administered and directed within the Canada Council by committees representing writers, publishers, librarians, translators, the Canada Council, the National Library and the federal Department of Communications. All costs involved in the compensation program will be borne by the $3 million-per-year fund.

"The payment for public use program responds to some 20 years of discussions and proposals on the issue", Masse said.

Sout Inter- Youth

Andhra Un Octob

Phot

A student representative of Andhra University lighting the lamp to mark the inauguration of the Youth Festival.

Western Light Vocal Solo by University of Hyderabad

Group song by Marathwada University

Classical Dance by Andhra University

Zone
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-5, 1986

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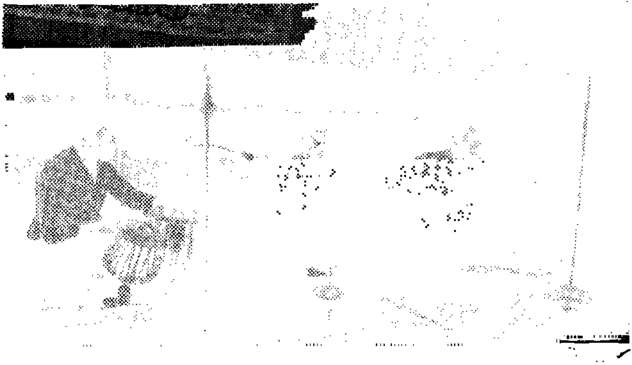
Classical Dance by Bangalore University

Group song by Annamalai University

Skit by Andhra University



Light Vocal Solo by University of Hyderabad

Youth Festival at Andhra University

The four-day South Zone Inter-University Youth Festival hosted by Andhra University, concluded with traditional gaiety and enthusiasm at Waltair on October 5, 1986. Smt. Kumudben Joshi, Governor of AP and Chancellor of Andhra University and Vice-Admiral S.C. Chopra, Commanding Officer, Eastern Naval Command, Visakhapatnam, were the Chief Guests at the Valedictory Functions.

Invitations were extended to all the universities of South Zone, out of which 15 universities had registered for participation; finally 9 universities with a total of about 200 participants and officials took part in the Youth Festival. Inclement weather and incessant rains did not mar the enthusiasm of the youth in participation at the Youth Festival.

A meeting of the contingent leaders and Programme Committee members took place on October 2, 1986. Lots were drawn and items of participation in events of Music, Dance, Theatre, Literary Activities and Fine Arts were finalised. A march-past was held at 2.30 p.m. when university contingents assembled at the Golden Jubilee Ground with placards and banners displaying names of their universities. The majestic Indian Navy Band led the contingents marching forward with full enthusiasm. Prof. K. Ramakrishna Rao, Vice-Chancellor, Andhra University, took the salute.

The inaugural function commenced by playing 'Ganesha Stuti' on veena by renowned musician, Prof. Emani Sankara Sastry, at the K.V. Gopalaswami Open Air Theatre. Students' representative, Ms. Subrahmanyeswari, lit the inaugural lamp.

Inaugurating the Youth Festival, the Vice-Chancellor called upon the youth to follow the footsteps of Mahatma Gandhi, while the day coincided with his birthday. Shri Sampson David, Cultural Officer, AIU in his speech hoped that the festival would create an awareness of and pride in our rich cultural heritage and thereby promote unity, amity and integration. Prof. Chatla Sreeramulu, Coordinator of Youth Festival offered his best cooperation through his team to the participants.

Just after the inaugural function, the cultural activities started with presentation of folk dances. Bharathidasan University Contingent bagged the first prize by rendering a splendid performance of Karagam dance, while Marathwada University obtained second prize. In Karagam folk dance, each dancer carries a brass pot, decked with flowers in a conical shape and on the accompaniment of Thavil, the dancers carefully balance the pots on their heads and execute complicated movements without upsetting the Kargam on the head.

Rangasree of Bangalore University was adjudged the best classical dancer for her rendering of Purandaradasa's Devaranama and Tillana. Mysore University bagged the second prize in classical dance. G. Lakshmana Murty of Hyderabad University stole the show at the light vocal Indian music, while Bharathidasan University got second prize.

The Annamalai University Group was adjudged first in Western Group Song competition. Bharathidasan University secured the second position in this event.

For Skits, the contingent of Marathwada University proved too good, while the second prize was secured by Bharathidasan University.

V. Nirmala of Bharathidasan University obtained first prize for debate, while R.V.L.N. Sharma of Andhra University bagged first prize in the Elocution competition. Nagaraj of University of Hyderabad received the second prize for this event.

Andhra University was adjudged best for competitions of Dumb Charades while Annamalai University obtained second prize. University of Hyderabad received first prize for the Mime item and second prize for this item went to Marathwada University.

The Fine Arts Championship was annexed by the Andhra Pradesh Agricultural University. Marathwada University bagged the second position.

The valedictory function was conducted on October 5, afternoon. Her Excellency Governor of Andhra Pradesh, Smt. Kumudben Joshi in her valedictory address appealed to the youth to come forward and fight out the forces of evil. She remarked that events like Youth Festivals provide emotional and national integration. She congratulated the participants of the Youth Festival who came from different universities to exhibit their talents through medium of art and culture.

Dr. Jagdish Narain, Secretary, AIU, expressed his happiness over successful completion of the festival and thanked the Vice-Chancellor and the members of Organising Committee for the same. He mentioned that viewing the manifold objectives of the Youth Festivals, AIU would continue organizing such festivals. The Governor gave away the prizes to the winners of various cultural events. Overall championship was awarded to Bharathidasan University while Andhra University was adjudged the second best in the Youth Festival.

A cultural fete was organised during the evening for which Vice-Admiral S.C. Chopra was the Chief Guest. He distributed the participation certificates to contingent leaders of participating universities. A colourful cultural bonanza with performance of selected winning items marked the conclusion of the South Zone Youth Festival.

Results of the South Zone Youth Festival

Andhra University, Waltair

October 2-5, 1986

(1) MUSIC

(a) Classical Vocal Solo	1st	Annamalai Univ	R Lathangi
	2nd	Mysore Univ	S Bharani
	3rd	Andhra Univ	V S K E Ch Vidyasagar
(b) Classical Instrumental Solo	1st	Annamalai Univ	Kalaiarasan
	2nd	Andhra Univ	A Rajasekhar
	3rd	Mysore Univ	S Bharani
	Consolation	Bangalore Univ	D Manjula
(c) Light Vocal (Indian)	1st	Hyderabad Univ	Lakshmana Murthy
	2nd	Bharathidasan Univ	S S Saraswathi
	3rd	Bangalore Univ	S Swaminathan
	Consolation	Andhra Univ	M Chitra Bhanu
(d) Western Vocal (Solo)	1st	Annamalai Univ	J Sanjiv Mervyn
	2nd	Hyderabad Univ	M Benergea
	3rd	Bharathidasan Univ	E A Santhosh
	Special Merit Prize	Andhra Univ	Lalrem Ruata
(c) Group Song (Indian)	1st	Annamalai Univ	
	2nd	Bharathidasan Univ	
	3rd	Marathwada Univ	
	Consolation	Bangalore Univ	
(f) Group Song (Western)	1st	Bharathidasan Univ	
	2nd	Anna University	
	3rd	Bangalore Univ	

(2) DANCE

(a) Folk Dance	1st	Bharathidasan Univ	
	2nd	Marathwada Univ	
	3rd	Andhra Univ	
(b) Classical Dance	1st	Bangalore Univ	Rangasree
	2nd	Mysore Univ	K Brunda
	3rd	Andhra Univ	C Sandhyasree

(3) LITERARY EVENTS

(a) Debate (English)	1st	Andhra Univ	Renu Gonela
	2nd	Bangalore Univ	Gayati Vedantam
	3rd	Andhra Univ	L Nanda Kishore
Debate (Regional)	1st	Bharathidasan Univ	V Nirmala (Tamil)
	2nd	Andhra Univ	R V S L N Sarma (Telugu)
	3rd	Hyderabad Univ	P Nagaraj (Telugu)
Elocution (English)	1st	Andhra Univ	Renu Gonela
	2nd	AP Agril Univ	Isac David
	3rd	Bangalore Univ	Sonali Gupte

Elocution (Regional)	1st	Andhra Univ.	R.V.S.L.N. Sarma (Telugu)
	2nd	Hyderabad Univ.	P. Nagaraj (Telugu)
	3rd	Andhra Univ.	L. Anand (Malayalam)
Quiz	1st	Andhra Univ.	B.V. Prasad Ashok Samuel P.N. Sudarshan
	2nd	Bangalore Univ.	Dileepraj Lobo Mahender. V. David. G. Francis
	3rd	Mysore Univ.	Asshu Calapa. P. Jayanth Eranki Sandhya, M.

(4) THEATRE

(a) One Act Play	1st	Marathwada Univ.	Dilip Mahalinge Bhagavanth Kasinadh Shyamraj Karan Jangde Ravindra Jagtap Sunita Kulkarni Sunita Patait Mohan Kothekar Gajanam Palseker
	2nd	Mysore Univ.	Rajendra Dinesh Kumar K.S. Vasudeva Sarma Hemanath Majunatha Ashoka
	3rd	Annamalai Univ.	G.V. Ravi Purnima Sundaram Vani Neelakantan V. Rangarajan Venkata Subramanyam A N. Annamalai S. Murali
(b) Skits	1st	Marathwada Univ.	Suneeta Patait Suneeta Kulkarni Dilip Mahalinge Shamraj Bhagwant Kishore Jangade Ravindra Jagatap
	2nd	Annamalai Univ.	A.N. Annamalai V. Rangarajan R. Venkata Subrahmanyam G.V. Ravi Poornima Sundaram Vani Neelakanthan

	3rd	Andhra Univ.	Y.V. Ramana P. Jaya Krishna D. Raja Rao B. Sundara Rao K. Ratnakara Babu G. Satyanarayana
	3rd	Anna Univ.	T. Loganathan K. Santhil Kumar R. Selvan S. Suresh Babu R. Karunakaran N. Ravi Kumar
(c) Dumb Charades	1st	Andhta Univ.	B.V. Prasad Ashok Samuel P.N. Sudarshan
	2nd	Annamalai Univ.	G.V. Ravi Purnima Sundaram V. Rangarajan
	3rd	Bangalore Univ.	M. Prasanna Kumar Anoop Vittal Kum. Gayatri Vedantam
(d) Mime	1st	Hyderabad Univ.	Uday Kumar Reddy P. Narasimham Ranjan K. Mukherjee
	2nd	Marathwada Univ.	Dilip Mahalinge Ravindra Jagtap Bhagvant Shyam Raj Karant Jangde Suneeta Kulkarnee Suneeta Patait
	3rd	Bharathidasan Univ.	Nirmala Nachiketa Das Aditya P. Mohanti Ravichandran, V.

(5) FINE ARTS

(a) On the Spot Painting	1st	Bangalore Univ.	Man Mohan L. Anchan
	2nd	A.P. Agril. Univ.	Keshav Raj Kranthi
	3rd	Mysore Univ.	Athiya Afshan
(b) Collage	1st	A.P. Agril. Univ.	Keshav Raj Kranthi
	2nd	Bharathidasan Univ.	Supratik Mukherji
	3rd	Andhra Univ.	L. Uma
(c) Poster Making	1st	A.P. Agril. Univ.	Keshav Raj Kranthi
	2nd	Marathwada Univ.	Lakhichand Jain
	3rd	Bharathidasan	Supratik Mukherji
(d) Clay Modelling	1st	Marathwada Univ.	Ghanshyam Gupta
	2nd	A.P. Agril. Univ.	Keshav Raj Kranthi
	3rd	Mysore Univ.	Athiya Afshan
(e) Cartooning	1st	Marathwada Univ.	Lakhichand Jain
	2nd	A.P. Agril. Univ.	Keshav Raj Kranthi
	3rd	Annamalai Univ.	R. Venkata Subramanyam

AIU Library & Documentation Services

One of the important functions of the Association of Indian Universities is to act as a clearing house of information on higher education in the country Towards this end the AIU Library is engaged in collection building and developing instruments for the dissemination of research information. Over the years a valuable collection of books and documents on different aspects of higher education has been acquired

The Library has also developed Bibliography of Doctoral Dissertations as an effective tool in the dissemination of research information Retrospective bibliographies covering the period 1857-1970 and 1970-75 were the first to appear. Effective 1975, however, the bibliography is issued annually in two volumes. One volume deals with Natural and Applied Sciences while the other records doctoral degrees awarded in Social Sciences and the Humanities In addition to the normal bibliographical details like the name of the Research Scholar, the title of the thesis, years of registration for and award of the degree, and the name of the University accepting the thesis for award of a doctoral degree, the bibliography also gives name and complete address of the supervising teacher and an availability note that seeks to inform whether a copy of the dissertation is available for consultation and use in the University Library Department or Registrar's Office

The columns 'Theses of the Month' and 'Research in Progress' are intended to cut out the time lag between the receipt of information and its inclusion in bibliography Such Universities as are not sending us regular information in respect of Doctoral Theses accepted and research scholars enrolled are welcome to make use of these columns

The Library is open from 9 30 a m to 5.30 p m Monday through Friday

RESEARCH IN PROGRESS

A List of Research Scholars Registered for Doctoral Degrees of Indian Universities

PHYSICAL SCIENCES

Mathematics

1 Bakshis Singh *Instabilities in porous and non porous media* HP Dr R C Sharma

2 Gupta, Anil Kumar *Some stability problems in theoretical hydrodynamics* HP Dr M B Banerjee

3 Jyoti Kumar *Some vibration problems in elasticity* HP Dr B B Sharma

4 Katval, Satya Prakash *Onset of instability in some magneto fluid dynamical systems* HP Dr M B Banerjee

5 Misra, J N *Some stability problems in plasmas hydrodynamics and astrophysics* HP Dr R C Sharma and Dr S N Dube

6 Neela Rani *Double diffusive convection in fluids and Plasmas* HP Dr R C Sharma

7 Pathania, R C *Some stability problems in hydrodynamics and hydromagentics* HP Or J R Gupta

8 Prakash Chand *Some problems in elastic plastic and creep transition for orthotropic materials* HP Dr S K Gupta

Physics

1 Animesh Kumar *Multiparticle production in hadronic interactions at high energies* Delhi Prof D P Goyal

2 Ardeshir, Bagheri *Studies of the middle atmosphere* Delhi Prof C S G K Setty

3 Arora, Ajay Kumar *Studies on metal insulator (ferro electric) semiconductor structures* Delhi Prof Abhai Mansingh

4 Arora, Manoj Kumar *Transport properties of amorphous semiconductors* Delhi Prof P G Mathur and Dr R M Mehra

5 Bihariand Abdul Rahim *Infrared spectra studies of some compound found in petroleum products* Delhi Prof M K Machwe

6 Choudhury Sudhanshu Ranjan *Amorphous semiconductors* Delhi Prof Feroz Ahmed

7 Datta Alk [illegible] *QCD oriented studies in quark physics* Delhi A N Mitra

8 Giri Rakesh *Spectroscopic study of fluorescent organic compounds* Delhi Prof M K Machwe and Dr S S Rathi

9 Gupta Mohan Lal *Study of some aspects of F region ionosphere* Delhi Prof C S G K Setty

10 Jaiswal Mahadeo Prasad *Properties of the time dependent coherent states* Delhi Dr Ravinder Nath

11 Khan Javed Akhtar *Problems in theory of path integrals in quantum theory* Delhi Dr Kamal K Datta

12 Mukesh Kumar *Electro optical and optical properties of bulk and thin film material* Delhi Prof M K Machwe

13 Nayak Benudhar *Properties of lead zirconate titanate (PZT) ceramics and its polymer composites* Delhi Dr M K Machwe

14 Panakkal Jose T *Non destructive evaluation of nuclear fuels* Kerala Dr V K Vaidyan

15 Pandey Prithvi Nath *Problems in the quantum theory of measurement* Delhi Dr K Datta

16 Pati Kishor Chandra *Group representations* Delhi Prof K C Tripathi

17 Pradumn Kumar *Properties of laser radiation and its interaction with matter* Delhi Dr Ravinder Nath

18 Sanjay Kumar *Unified field theories and cosmology* Delhi Prof N Panchapakesan

19. **Sanjeeta Rani.** *Low temperature solid state physics.* Delhi. Dr. G.K. Chadha.

20. Shishodia, Prem Kumar. *Transport properties of amorphous semiconductors.* Delhi. Prof. P.C. Mathur.

21. Singh, Jivan Kumar. *Phase transitions in particle physics.* Delhi. Dr. Jai Dev Anand.

22. Soudmand, Mehdi. *Crystal growth and X-ray crystallography.* Delhi. Prof. G.G. Trigunayat.

23. Srivastav, Sandeep. *Fabrication and characterisation of films for surface acoustic wave devices.* Delhi. Prof. Abhai Mansingh.

24. Srivastava, Sanjeev. *Radio wave propagation in the ionosphere.* Delhi. Prof. C.S.G.K. Setty.

25. Tripathy, Lakshmi Kanta. *Group representations.* Delhi. Prof. K.C. Tripathy.

26. Upadhyay, Archana. *Some studies of equatorial waves in the middle atmosphere.* Delhi. Prof. C.S.G.K. Setty.

27. Vasanta Kumar. C.V.R. *R.F. Sputtered ferroelectric films.* Delhi. Prof. Abhai Mansingh.

28. Venkateswara Reddy, Budda. *Particle physics: Finite temprature field theory.* Delhi. Dr. J.D. Anand and Prof. S.N. Biswas.

29. Vyas, Pratima. *Laser-plasma interaction.* Delhi. Dr. M.P. Srivastava.

30. Yadav, Sushma. *Plasma physics.* Delhi. Prof. N.K. Nayyar.

Chemistry

1. Awasthi, Vandana. *Synthetic photochemical studies of biologically active heterocycle.* Delhi. Dr. S.M.S. Chauhan.

2. Babbar, Sunanda. *Stereochemical studies of some transition metal complexes with some biologically active ligands.* Delhi. Dr. Sulekh Chandra.

3. Delta, Anil Kumar. *Chemistry of natural products.* Delhi. Prof. M. Krishnamurthy.

4. Grover, Manju Bala. *Synthetic study of heterocyclic compounds.* Delhi. Prof. V.K. Ahluwalia.

5. Gupta, Sanjay Sen. *Study of metal complexes.* Delhi. Prof. R.N. Bannerjee.

6. Jha, Anita. *Coordination chemistry and catalytic properties of molybdenum compounds.* Delhi. Dr. Alok Kumar.

7. Khurana, Anju. *Synthesis of heterocyclic compounds of physiological interest.* Delhi. Prof. V.K. Ahluwalia.

8. Mallika, N. *Synthetic studies in heterocyclic compounds.* Delhi. Prof. V.K. Ahluwalia.

9. Mane, S.J. *Studies of complexation of transition metal ions in analytical chemistry.* Shivaji. Dr. (Smt.) S.G. Kawatkar.

10. Mathew, Charlly. *Physico-chemical investigations of reverse micellar systems.* Delhi. Dr. Amarnath Mitra.

11. Narswani, Sunita. *Synthesis and characterisation of complexes with a nitrogen-sulphur containing ligands.* Delhi. Dr. N.K. Kaushik.

12. Priti. *Organometallic chemistry.* Delhi. Dr. P.N. Kapoor.

13. Ray, Purna Chandra. *Chemical studies of biologically active glycosides.* Delhi. Dr. S.M.S. Chauhan.

14. Sahadev. *Coordination and analytical chemistry.* Delhi Dr. S.K. Sindhwani.

15. Singh, Madan Pal. *Inorganic analytical chemistry: Synthesis, characterization of metal complexes and their use.* Delhi. Dr. N.K. Kaushik.

16. Srinivas, Swargam *Photochemistry of quinonoid compounds.* Delhi. Dr. R.N. Khanna.

17. Tewari, Neera. *Synthesis of insect pheromones.* Delhi. Prof. G.B.V. Subramanian.

18. Tuli, Neelam. *Coordination chemistry and catalytic properties of molybdenum compounds.* Delhi. Dr. Alok Kumar Banarjee.

Earth Sciences

1. Chatterjee, Rana. *Analysis of floral sequences.* Delhi. Dr. S.K. Tandon.

2. Daljit Singh. *Structural geology: Structural study of the Delhi Group Rocks around Delhi and in the North Eastern Part of Haryana.* Delhi. Dr. A.M. Bhole.

3. Mazumdar, Debashis. *Micropalaeontology of genozoic sediments of Andaman Islands.* Delhi. Dr. V. Sharma.

4. Purohit, Rama Kant. *Micro-tectonics of parts of lesser Himalayan formations of Tehri Garhwal, U.P.* Delhi. Prof. P.S. Saklani and Dr. S.N. Virnave.

5. Rakesh Kumar. *Development of mineral resources.* Delhi. Prof. S. Varadarajan.

6. Santosh, M. *Petrochemistry related mineralization and genesis of the ambalavayal granite and associated pegmatites, Wynad District, Kerala.* Cochin. Dr. N.G.K. Nair.

7. Sharma, Poonam. *Peterological and geochemical studies concerning the evaluation of Delhi (Island Arc) NW India.* Delhi. Dr. Mihir Deb.

8. Surender Singh. *Study of cenozoic forminifera of Andaman Islands.* Delhi. Dr. V. Sharma.

Engineering & Technology

1. Chandwani, Manohar. *Investigations on computational complexity of internal sorting.* Devi Ahilya. Dr. P.C. Sharma.

2. Dwivedi, Jai Prakash. *Plasticity.* BHU. Dr. P.C. Upadhyay.

3. Fakhir, Abdul Rasool N. *A study on the chemical treatment of sewage using SRP.* Delhi. Dr. A.F.S.A. Aowel.

4. Mithilesh Kumar. *Reduction of iron oxide by renewable sources of energy.* BHU. Dr. R.C. Gupta.

5. Nigam, Shri Ram. *Analysis and development of speed control for induction motor using single phase H.F. Source.* Devi Ahilya. Shri C.M. Pouddar.

6. Ravindra Prasad. *Heat transfer studies in flowing and freezing systems.* BHU. Dr. N.K. Samria.

7. Srivastava, Amit. *Flexible manufacture.* BHU. Dr. Anand Shanker.

8. Sudama Singh. *Constitution of alloys.* BHU. Dr. S. Bhan and Dr. K.C. Jain.

9. Yadava, Lallan. *Microelectronics & Hybrid integrated circuits.* BHU. Prof. S.K. Srivastava.

10. Yadava, Pradeep Kumar. *Studies on MOS devices and circuits.* BHU. Prof. S.K. Srivastava.

BIOLOGICAL SCIENCES

Anthropology

1. Basu, Koumari. *Human cytogenetics : Molecular basis of the chromosome structure and function in man.* Delhi. Dr. P.K. Ghosh.

2. Bhattacharyya, Mini. *Development and change: A study of social organisation of the Deori, a scheduled tribe of upper Assam.* Delhi. Dr. J.S. Bhandari.

3. Nag, Shampa. *Bio-demographic study: Study of mortality and morbidity among the slum-dwellers of Delhi.* Delhi. Prof. P.K. Datta.

4. Purkait, Rumjhum. *Forensic anthropology assessment of sex and stature from long bones.* Delhi. Dr. Surinder Nath.

5. Rath, Swetansu Sekhar. *Human growth and development : Maturational trends in a tribal group of Orissa.* Delhi. Dr. Surinder Nath.

Botany

1. Amar Singh. *Tissue culture and physiology of flowering in flowering plants.* Delhi. Dr. I. Usha Rao.

2 **Ansari, Athar Imtiaz** *Control of gene expression at the transcription and post transcription level in eukaryotes* Delhi Prof R C Sachar

3 Banerjee Madhomita *In vitro studies on some higher plants* Delhi Dr S S Bhojwani

4 Bali Mamta *Study of vesicular mycorrhizal fungi in economically important plants* Delhi Prof K G Mukerjee

5 Kapoor, Roma *Control of gene expression in eukaryotes* Delhi Dr R C Sachar

6 Mallick, Mohammad Anwar *Physiology of growth and development* Delhi Dr A Rashid

7 Mathur, Rashmi *Gene expression in eukaryotes* Delhi Prof R C Sachar

8 Minati Rani *Studies of genetic manipulation in plant cells* Delhi Prof S C Maheshwari

9 Muzammil, Irshad *Studies on genetic diversity of Meconopsis* Delhi Dr C R Babu

10 Pandit, Maharaj Krishan *Population biology of Coptis and its allies* Delhi Dr C R Babu

11 Rekha Rani *Taxonomy and ecology of endogonaceae* Delhi Prof K G Mukerjee

12 Sathe, Sanjay Sadashivrao *Economic aspects of mangroves* Shivaji Dr (Smt) L J Bhosale

13 Saxena, Saumya *Control of gene expression in eukaryotes* Delhi Dr R C Sachar

14 Tiwari Anita *Ecological strategies* Delhi Dr K M M Dakshini

Zoology

1 Abraham Nelson P *A study on the forest habitat and wild life in Wynad Kerala* Kerala Dr M Balakrishnan

2 Nehru C R *Studies on the bionomics of Holotrichia serrata infesting rubber and its control* Kerala Dr G K Karanavar

3 Peter M C Subhash *Hormonal control of oxidative and Intermediary metabolism in lower vertebrates* Kerala Dr Oommen V Oommen

4 Pillai K Manirajan *Studies on some aspects of ecology and biology of earthworms* Kerala Dr N R Prabhoo

5 Sarathchandran K *The pesticide residues on food commodities and their effects on non target organisms* Delhi Dr Rup Lal

6. **Sutharam, K K** *Studies on the role of hormones and certain drugs in relation to energy metabolism in amphibia and reptiles* Kerala Dr Oommen V Oommen

Medicine

1 Gupta Harish Chandra *Hypertension* BHU Prof S N Tripathi

2 Kohli Kanchan *Phytochemical investigations of some Indian medicinal plants* Delhi Dr R Zafar

3 Mishra Ram Pramod *Behaviour analysis and self modification of maladaptive pre estimation* BHU Dr S S Kaushik and Prof S N Tripathi

4 Prabu Sushma *Study of some natural products and synthetic compounds* Delhi Dr M S Y Khan

5 Saraswati M *Central modulation of gluco regulator activity in rat* BHU Prof S K Bhattacharya

6 Siddiqui Anees Ahmad *Chemical and pharmacological study of some naturally occurring and synthetic compounds* Delhi Dr M S Y Khan

7 Singh Ashok Kumar *Standardisation of a rating scale for assessing proneness to coronary heart disease* BHU Dr S S Kaushik and Prof S N Tripathi

8 Tiwari Surendra Nath *Study of personality charcteristics and stress pattern in peptic ulcer with reference to the concept of dosa prakriti* BHU Dr D S Singh and Prof R H Singh

9 Upadhyay Shyamlendu Prakash *Influence of some herbal preparations on the quantity and quality of eggs with special reference to the enzyme content* BHU Dr Y B Tripathi

19 Virendra Kumar *A study on the therapeutic potential of some hathayogic practices* BHU Dr D S Singh and Prof R H Singh

Agriculture

1 Mohanty Jeeta *Assimilate content and morphological behaviour of individual tillers of the rice plant under various water regimes and nitrogen levels* Sambalpur Dr P K Mohapatra and Dr S C Panda

THESES OF THE MONTH

A List of Doctoral Theses Accepted by Indian Universities

PHYSICAL SCIENCES

Mathematics

1 Dubey Sarvadanand *Study in approximation of functions by fourier series* Durgawati

2 Dulal Pal *The Study of laminar flow past and through porous media with applications to biomechanics* Bangalore

3 Ramachandran P T *Some problems in set topology relating group of homeomorphisms and order* Cochin

4 Ramana Murthy Ch V *Some second order fluid flows* Kakatiya

5 Sreenadh, S *Some porous flow models* Venkateswara

Statistics

1 Salahuddin, Syed *Some problems in parametric programming for linear and non linear programming problems with bounded variables* Osmania

Physics

1 Chandorkar Ranjana *A study of transport and recombination of electrons and holes in solar cell* Rajasthan

2 Chatterjee Ashok Kumar *A study of the optical properties of semiconducting thin films of (II VI)* Durgawati

3 Chattopadhyay Satadal *Studies on repair of radiation induced damages in cultured mammalian cells* Calcutta

4 Chattopadhyay, Tultul *Studies on some features of the disturbed sun and associated phenomena* Calcutta

5 Das Samir *On deflections and vibrations of polygonal plates by the method of conformal transformations* NBU

6 Das, Satyajiban *Protection of electrical machines and equipments against overheating in special service conditions* Calcutta

7. De, Sukla. *Instabilities and some other problems in plasma.* Calcutta.

8. Jha, Lok Narayan. *Generation of magagauss magnetic field in laser produced plasma.* Delhi.

9. Mahesh Prasad. *Studies of some heterocyclic molecules using spectroscopic methods.* Gorakhpur.

10. Mandal, Pradip Kumar. *X-ray diffraction studies on liquid crystals in solid and mesomorphic phases.* NBU.

11. Mohanty, Brahmananda. *Prediction of hydraulic conductivity in porous media.* Utkal.

12. Munibhadraiah, B. *Studies on the electronic absorption spectra of some first group transition metal ions in certain inorganic crystals.* Venkateswara.

13. Papavinasam, E. *Investigations in X-ray crystallography.* Madurai.

14. Pathak, Karuna Shanker. *EL characteristics and spectra of some phosphors.* Gorakhpur.

15. Shukla, Ram. *Theoretical and experimental studies of some liquid crystals.* Gorakhpur.

16. Sudarshan, E. *Studies in atmospheric physics : Normal mode oscillations in the earth's atmosphere.* Venkateswara.

17. Sudarshan, Mathummal. *Trace element analysis by proton induced X-ray emission.* NEHU.

18. Yadava, Yogendra Prasad. *Electrical conduction in some 3d-transition metal molybdates and chalcogenides.* Gorakhpur.

Chemistry

1. Aishwati. *Kinetics and machanism of oxidation of aliphatic alcohols by chloramine-T (CAT).* Meerut

2. Biij Mohan. *Pollution studies of Kadarabad drain with special reference to metals.* Meerut.

3. Gangwar, Sanjeev. *A photochemical decarboxylation-iodination of some derivatives of aleuritic acid and its utility in pheromone synthesis.* Delhi

4. Gujral, Bir Singh. *A study of conversion of rice-husk to ion-exahanger.* Meerut.

5. Jagadeswara Rao. S. *O-hydroxyphenylthiourea as an analytical reagent.* Venkateswara.

6. Jain, Satyendra Kumar. *Organic admixtures in portland and portland-pozzolana cement.* Meerut.

7. Kaicker, Praveen Kumar. *Synthesis of fluororesin monomers.* Meerut

8. Kakkar, Arun. *Chemical examination of some medicinal plants of tribal regions of Madhya Pradesh.* Durgavati.

9. Kista Reddy, Ch. *Synthesis of benzotriazepinones : A study on isatoic anhydride-aroylhydrazine reactions.* Osmania.

10. Krishna Kumari, Chaganty. *Some studies on the analytical chemistry and mixed ligand complexes of thallium* (iii). Andhra.

11. Mohapatra, Prasanna Kumar. *Synthesis and characterisation of pharmacologically active heterocycles.* Utkal.

12. Nandi, Bichitra. *Radiochemical studies on the separation of some closely similar element pairs using Di (Z-ethyl hexyel) phosphoric acid as the extractant.* Calcutta.

13. Panda, Devaraj. *Management of fertiliser nitrogen for rice, Oryza sativa L under low land water logged conditions.* Utkal.

14. Purshotham Reddy, A. *Transition metal complexes of 2-diphenylphosphinoethylbenzylamine.* Osmania.

15. Ramakrishna, Surapaneni. *Chemical studies on marine algae Dolabellanes and analogues from Dictyota dichotoma.* Andhra.

16. Rastogi, Subhash Chandra. *Studies of the stereochemistry of high corridination compounds of oxozirconium (IV), dioxouranium (VI) and thorium (IV) involving some oxygen and nitrogen donor ligands.* Meerut.

17. Sahu, Alpana. *Studies on heterocyclic and organometallic compounds.* Calcutta.

18. Sarada, M. *Chemical investigations of four Indian medicinal plants.* Venkateswara.

19. Shukla, Vishnu Swaroop. *Structural investigations of the chemical constituents of plants of Compositae family with special reference to terpenoids.* Gauhati.

20. Singhal, Vineet Kumar. *Physico-chemical studies on the binding of metals and some physiologically active compounds with proteins.* Meerut.

21. Sinha, Nirmalya. *Coordination chemistry of hydroxamic acid.* Baroda.

22. Sood, Anita. *Determination of trithiocarbonates and investigations on their analytical uses.* HP.

23. Tiwari, Krishna Kumar. *Semimicro and micro determination of organic compounds via functional groups.* Durgawati.

24. Venkata Raghavachary, K. *Characterization of supported vanadia catalysts by low temperature oxygen chemisorption XRD, ESR, IR and other techniques.* Osmania.

25. Venkateswar Rao, P. *Synthesis and structural studies of transition metal complexes with some oxygen heterocyclic compounds.* Osmania.

26. Vyas, Sushma. *Chemistry of phosphorus and thiophosphorus benzimidazoles and related derivatives.* Rajasthan.

27. Tyagi, Jageshwar Prasad. *Preparation and characterization of dithiocarbamates of transition and nontransitional elements.* Meerut.

28. Yadav, Mahinder Singh. *Thermal and other physico-chemical studies on some metal dithiocarbamates.* Meerut.

29. Yeole, Chandrashekhar Gaurihar. *Reversed phase paper chromatographic studies of some elements.* Shivaji.

Earth Sciences

1. Arun Kumar. *Geomorphic studies of Ravi river basin.* Delhi.

2. Bhuvan Prakash. *Contribution to the biostratigraphy of Karewa group (J & K) with special reference to microvertebrates and associated micro-fossils.* Panjab.

3. Chakrabarti, Benaykrishna. *Geology of the Rampur area, Himachal Pradesh, India and its bearing on the tectonostratigraphy of the Himachal Himalayas.* Calcutta.

4. Jagannadha Rao, Mokka. *Origin of recent sediments along Visakhapatnam Bhimunipatnam, East Coast of India.* Andhra.

5. Jayawanth, B.J. *Stratigraphic and paleoenvironmental aspects of dolostones in Pakhal Basin, Andhra Pradesh.* Osmania.

6. Nagaraju, M. *Lake pulicat and its environs, South India.* Venkateswara.

7. Patel, Kanchan Fulabhai. *Studies on the tidal muds of Saurashtra and Mailand Gujarat Coast with special reference to their geochemistry.* Baroda.

8. Ramasubba Reddy, N. *Chemical and magnetic stratigraphy of a lava sequence across river Narmada, Deccan traps.* Venkateswara.

9. Subba Rao, Vud lagiri. *Meteorological aspects of severe floods in India.* Andhra.

Engineering & Technology

1. Bhattacharyya, Bhargabhikram. *On the inadmissible class of faulty functions in logic networks and design for testibility in LSI/VLSI.* Calcutta.

2. Kannaiah. P. *Studies on thermal properties of moulding sands.* Venkateswara.

3. Modi, Vinod Kumar. *Studies on the technological aspects of preservation of acid and heat coagulated cheese (Paneer).* PAU.

4. Ravichandran, C. *Experimental studies on radio wave communication using equatorial sporadic-E and spread-F regions.* Anna.

5. Vibhu Rashmi. *A photoelastic investigation of residual stresses in circular rods of transparent polymers.* IIT, Delhi.

CLASSIFIED ADVERTISEMENTS

S.N.D.T. WOMEN'S UNIVERSITY

1, Nathibai Thackersey Road, Bombay-400 020

Applications are invited in the prescribed forms available at the University Office on payment of Rs. 5/- (by M.O./Indian Postal Order/in Cash) for the following posts, to be filled in at the University Departments and its conducted Institutions at Bombay and Poona, so as to reach the undersigned on or before fifteen days from the date of its advertisement.

Posts	No. of Posts	Medium of Teaching
A. S.V.T. COLLEGE OF HOME SCIENCE, BOMBAY-49		
1. Principal	ONE	—
2. Lecturer in English	ONE TEMP.	English.
B. C.U. SHAH COLLEGE OF PHARMACY, BOMBAY-49		
1. Principal/Professor	ONE	ENG.
2. Reader in Pharmaceutics	TWO	ENG.
3. Lecturer in Pharmaceutics	ONE	ENG.
C. DEPARTMENT OF POST GRADUATE STUDIES & RESEARCH, BOMBAY		
1. Reader in Psychology	ONE	ENG.
1.A Laboratory Assistant (for the Dept. of Psychology)	ONE	ENG.
2. Reader in Music	ONE	ENG.
3. Lecturer in Sociology	ONE	ENG + MR.
4. Professor in Sociology	ONE	Eng + GUJ.
D. DEPARTMENT OF SPECIAL EDUCATION, BOMBAY-49		
1. Reader in Special Education	TWO	ENG.
E. COLLEGE DEVELOPMENT COUNCIL, BOMBAY-20 (UNDER UNIVERSITY)		
1. Director	ONE	—
F. DEPARTMENT OF CONTINUING AND ADULT EDUCATION AND EXTENSION WORK, BOMBAY-20		
1. Assistant Director	ONE	—
2. Technical Assistant	ONE	—
G. S.N.D.T. WOMEN'S UNIVERSITY EXTENSION LIBRARY, JUHU CAMPUS		
1. Deputy Librarian	ONE TEMP.	—
H. P.V.D.T. COLLEGE OF EDUCATION, BOMBAY-400 020		
1. College Librarian	ONE	—
I. S.N.D.T. COLLEGE OF EDUCATION FOR WOMEN, POONA		
1. College Librarian	ONE	—
J. L.T. COLLEGE OF NURSING, BOMBAY-20		
1. Lecturer in Nursing (Specialised in the field of Community Health or Psychiatric Nursing)	ONE	ENG.
K. S.N.D.T. COLLEGE OF EDUCATION FOR WOMEN, POONA		
1. Reader in Science and Mathematics	ONE	MAR/ENG/GUJ.
L. S.H.P.T. SCHOOL OF LIBRARY SCIENCE, BOMBAY		
1. Lecturer in Library Science	ONE	ENG.
M. P.V. POLYTECHNIC, BOMBAY-49		
1. Catalogue Assistant	ONE	—
N. S.N.D.T. WOMEN'S UNIVERSITY OFFICE, BOMBAY		
1. Assistant Registrar	ONE	—
O. S.N.D.T. ARTS AND C.B. SHAH COLLEGE OF COMMERCE, BOMBAY-20	TEMP.	
1. Tabla Player	ONE	—
P. S.N.D.T. COLLEGE OF HOME SCIENCE, POONA		
1. Laboratory Assistants (One person who has worked with Electronic equipment and Photography will be preferred)	TWO	ENG.

Minimum qualifications, salary scales, etc. of the post of teachers are as per approved U.G.C. scales and qualifications. Applications of Scheduled Castes/Tribes/Other Nomadic Tribes, will be considered as per Government directives. Details regarding qualifications, Experience, etc. will be available with application forms, which should be collected. Persons who have already applied to any of the above posts, in response to our earlier advertisement, need not apply again.

Dr. (Smt) Usha Thakkar
REGISTRAR

ALIGARH MUSLIM UNIVERSITY

ALIGARH

Advertisement No. 14/86-87

Applications on the prescribed form are invited for the following posts :

1. Principal, J.N. Medical College.

Scale of Pay : Rs. 1500-60-1800-100-2000-125/2-2500 plus allowances.

Qualifications : Should possess the same basic University Medical qualification and other academic qualifications and a minimum of 10 years teaching experience as Professor/Associate Professor/Reader in a Medical College out of which at least five years should be as Professor in a department.

Note: The Principal of the College will also have to work as the Chief Superintendent of the Medical College Hospital.

PROFESSORS

Scale of Pay : Rs. 1500-60-1800-100-2000 125/2-2500 plus allowances.

2. Professor of Bio-Chemistry, Department of Bio-Chemistry.

Qualifications : I-Essential : M.D. (Bio-Chemistry), M.B.B.S. with M.Sc. (Medical Bio-Chemistry), Ph.D. (Medical Bio-Chemistry), D.Sc. (Medical Bio-Chemistry).

Teaching / Research Experience As a reader in Biochemistry for four years in a Medical College.

II-Desirable: The candidate should have notable contributions in the areas of immunology/molecular biology.

3. Professor of Pathology, Department of Pathology.

Qualifications: I- Essential: M.D. (Pathology), M.D. (Pathology & Bacteriology), M.D. (Pathology with Bacteriology), Ph.D. (Pathology), D.Sc. (Pathology).

Teaching / Research Experience : As Reader in Pathology for four years in a Medical College.

II- Desirable : Original research publications in the speciality in Indian and foreign journals.

Note : Those who have applied earlier need not apply again.

4. Professor of Psychiatry, Department of Medicine.

Qualifications : M.D. (Psychiatry), M.D. (Psychological Medicine), M.D. in Medicine with Diploma in Psychological Medicine.

Teaching / Research Experience : As Reader in Psychiatry for four years in a Medical College.

5. Professor of Neuro-Surgery, Department of General Surgery.

Qualifications : M.Ch. (Neuro-Surgery).

Teaching/Research Experience : As Reader in Neuro-Surgery for four years in a Medical College.

READERS

Scale of Pay : Rs. 1200-50-1300-60-1900 plus allowances.

6. Reader in Bio-Physics, Department of Bio-Chemistry.

Qualifications I- Essential : M.D. (Biophysics), Ph.D. (Biophysics), M.D. (Physiology) or M.D. (Biochemistry) with one year training in Biophysics.

Teaching/Research Experience : As Lecturer in Biophysics for five years in a Medical College.

II-Desirable : The candidate should have made notable contributions in Biophysics/Biophysical Chemistry and in particular in the areas of conformation of proteins, nucleic acid, conformational transitions and protein folding.

Job Specifications : The selected candidate will be responsible for organising the teaching and research programmes in Biophysics, particularly in the areas of structural studies of proteins and nucleic acids.

7. Reader in Pathology, Department of Pathology.

Qualifications: I- Essential: M.D. (Pathology), M.D. (Pathology & Bacteriology), M.D. (Pathology with Bacteriology), Ph.D. (Pathology), D.Sc. (Pathology).

Teaching/Research Experience : As Lecturer in Pathology for five years in a Medical College.

II-Desirable: Research experience and publications.

Note: Those candidates who have applied in response to the Advertisement No. 28/85-86 dated 19.2.1986 need not apply again. They will be considered on the basis of their previous applications if eligible.

8. Reader in Pathology (Haematology & Blood Banking) Department of Pathology.

Qualifications: I-Essential: M.D. (Pathology), M.D. (Pathology and Bacteriology), M.D. (Pathology with Bacteriology), Ph.D. (Pathology), D.Sc. (Pathology).

Teaching/Research Experience : As Lecturer in the Pathology department of a Medical College, with experience and special interest in Haematology for atleast five years.

II-Desirable : Original research publications in the speciality in Indian and foreign journals.

Note : The selected candidate will be responsible for organising an supervising the Blood Bank services in addition to Haematology work .

9. Reader in General Surgery (Bio-Chemist) Department of General Surgery.

Qualifications : I-Essential: M.D. (Biochemistry), M.B.B.S. with M.Sc. (Medical Biochemistry), Ph.D. (Medical Biochemistry), D.Sc. (Medical Biochemistry).

Teaching/Research Experience : As Lecturer in Biochemistry for five years in a Medical College.

II-Desirable: Experience in Biochemically managing the patients undergoing specialised surgery.

10. Reader in Urology, Department of General Surgery.

Qualifications: M.Ch. (Urology)

Teaching / Research Experience : As Reader in Neuro-Surgery for five years in a Medical College.

11. Reader in Neuro-Surgery, Department of General Surgery.

Qualifications: I-Essential: M.Ch. (Neuro-Surgery)

Teaching/Research Experience: As Lecturer in Neuro-Surgery for five years in a Medical College.

II-Desirable : Experience of working in a good Neuro-Surgical Centre.

12. Reader in E.N.T., Department of Oto-Rhino-Laryngology.

Qualifications : I-Essential : M.S. (Oto-Rhino-Laryngology).

Teaching/Research Experience As Lecturer in Oto-Rhino-Laryngology for five years in a Medical College

II-Desirable : Published research work.

13. Reader in Neonatology, Department of Paediatrics

Qualifications I-Essential : M D (Paediatrics)

Teaching/Research Experience As Lecturer in Paediatrics for five years in a Medical College Preference will be given to those having experience of working in a NEONATAL UNIT

II-Desirable : Original research publications in the speciality in Indian and foreign journals

Note : Those candidates who have applied earlier need not apply again

14. Reader in Radiology, Department of Radiology

Qualifications: MD M S (Radiology), M.D (Radiodiagnosis), M D (Radiotherapy)

Teaching/Research Experience As Lecturer in Radiology for five years in a Medical College

Note : Those candidates who have applied in response to the Advertisement No 6/86-87 dated **18-6-1986** need not apply again They will be considered on the basis of their previous applications if eligible.

FOR ALL THE ABOVE POSTS OF READERS

Persons appointed as Lecturer prior to 1982 recommendations, the teaching experience as Registrar and as Lecturer be considered eligible for appointment as Reader.

15. Reader in Pharmacology, Department of Ilmul Advia, A.K. Tibbiya College.

Qualifications I-Essential : 1 M D (Pharmacology)

2. Knowledge of Urdu
3. Teaching experience of atleast five years in the subject

II-Desirable: Published work

LECTURERS

Scale of pay: Rs. 700-40-1100-50-1600 plus allowances

16. Lecturer in Bio-Chemistry, Department of Bio-Chemistry

Qualifications : M D (Bio-Chemistry), M B.B S with M Sc (Medical Bio-Chemistry), Ph D. (Medical Bio-Chemistry), D Sc (Medical Bio-Chemistry)

Requisite recognised post-graduate qualifications in the subject

Note: The selected candidates will be responsible for organising Clinical Biochemistry Section as well as for conducting courses in Medical Biochemistry for M B B S and M D Classes.

ONLY THE CANDIDATES WHO POSSESS MEDICAL QUALIFICATIONS NEED APPLY.

17. Lecturer in Neuro-Psychiatry, Department of Medicine.

Qualifications : M D (Psychiatry), M D (Psychological Medicine), M D in Medicine with Diploma in Psychological Medicine

Requisite recognised post-graduate qualifications in the subject

Higher initial start may be given to candidates possessing exceptional qualifications and experience. Candidates interviewed may be paid contribution towards their T A equal to one single second class Railway fare only

Prescribed application forms and instructions may be had from the A R (Selection Committee), Registrar's Office, A. M U on payment of Rs 5 - to be deposited in the Cash Section, Finance Office A M U or through an Indian Postal Order payable to the Finance Officer A M U, either personally or by sending a self-addressed Stamped envelope of 23 x 10 cm

Last date for receipt of applications in 30th October, 1986 (during office hours) Incomplete application and those received late will not be considered.

NOTE . SUITABLE PERSONS MAY BE KEPT ON PANEL FOR FUTURE APPOINTMENT.

Syed Shahid Ali
REGISTRAR

CORRIGENDUM

FOR THE POST AT S NO 1 ADVERTISED VIDE ADVT NO 11/86-87 DATED 5 9 1986 MAY BE READ AS PROFESSOR OF PHYSICS (EXPERIMENTAL NUCLEAR PHYSICS)

REGISTRAR

UNIVERSITY OF ROORKEE

ROORKEE

Advertisement No. Fstt (A)/5/A-86 (Advt.)

Dated : Sept. 30 1986

Applications on prescribed forms, obtainable from the Registrar either personally or by sending a self-addressed envelop (9" x 4") affixed with Rs 1 20 stamps, are invited for the following posts in Earthquake Engineering Department Normally the applications should not be above 55 years in age Higher starting salary could be offered to candidates on their qualifications and experience Candidates in employment are required to send their applications through proper channel Applications received late, incomplete or without required remittance will not be entertained

Last date of receipt of applications on prescribed form alongwith application fee of Rs 10 - (By Bank Draft or Indian Postal Order in favour of Registrar, University of Roorkee) is **15-11 1986** and for overseas candidates is **30-11-1986**

1 PROFESSOR 1500-2500-1R
  1R—Soil and Rock Dynamics

2 READER 1200-1900
  1R+1T—Structural Dynamics
  1R—Soil and Rock Dynamics

3 LECTURER 700-1600
  1T—Structural Dynamics
  2R+1T—Soil and Rock Dynamics
  1R—Seismology and Seismotectonics

NOTE 1 U G C prescribed qualifications are applicable Other details alongwith specialisation etc will be supplied alongwith application forms

2 Number of posts shown above may change at the time of selection

3 Only Indian national need apply.

REGISTRAR

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